

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please rewrite claim 54 and add new claims 64-84 as follows:

Listing of Claims:

1. (Canceled)
2. (Previously Presented) The lithium secondary cell according to claim 54, wherein at least one of said plate member, said external terminal member, and said internal terminal member is produced by press processing or cold forging.
3. (Previously Presented) The lithium secondary cell according to claim 54, wherein at least two of said plate member, said external terminal member and said internal terminal member are produced by a method selected from a group consisting of friction bonding, brazing, welding, clamping and forging clamping, and any combination of those methods.
4. (Canceled)
5. (Previously Presented) The lithium secondary cell according to claim 54, wherein the central axis of said winding core is coaxial with the central axis of said cell case.

6. (Previously Presented) The lithium secondary cell according to claim 54, wherein said external terminal member has a hollow portion that functions as a pressure release path of said pressure release hole.
7. (Canceled)
8. (Canceled)
9. (Previously Presented) The lithium secondary cell according to claim 55, wherein said elastic body electrically insulates the positive and negative electrode plates from one another.
10. (Previously Presented) The lithium secondary cell according to claim 55, wherein said elastic body has an electric resistivity of not less than $10^{10} \Omega/\text{cm}$.
11. (Canceled)
12. (Previously Presented) The lithium secondary cell according to claim 55, wherein an amount of deformation of said elastic body in a direction that pressure is applied for bonding is larger than an amount of elastic body spring back, and a force of pressure applied to said elastic body for bonding is not more than a quantity of force in which said elastic body holds an elasticity maintenance percentage of 95% or more.

13. (Previously Presented) The lithium secondary cell according to claim 55, wherein said elastic body comprises any one of ethylene polypropylene rubber, polyethylene, polypropylene and fluororesin.

14. (Previously Presented) The lithium secondary cell according to claim 55, wherein said external terminal member and said internal terminal member are constructed with different metals.

15. (Previously Presented) The lithium secondary cell according to claim 55, wherein said plate member, said external terminal member and said internal terminal member comprises any one of Al, Cu and Ni or alloys thereof, and at least two of said plate member, said external terminal member, and said internal terminal member are produced by a method selected from a group consisting of friction bonding, brazing, welding, clamping and forging clamping, and any combination of those methods.

16. (Previously Presented) The lithium secondary cell according to claim 55, wherein said cell case and said electrode caps are bonded by applying clamping processing pressure for bonding to the portion of said cell case in contact with said electrode caps and an outer peripheral portion of said electrode caps for forming and/or welding processing to weld an end portion of said cell case and the outer periphery of said electrode caps.

Claims 17-53 (Canceled).

54. (Currently Amended) A lithium secondary cell, comprising:

an internal electrode body including a hollow cylindrical winding core, a positive electrode plate and a negative electrode plate wound around an external peripheral wall of the hollow cylindrical winding core, a separator disposed between the positive and negative electrode plates, and a nonaqueous electrolyte solution impregnating the internal electrode body;

a cylindrical cell case opened at both ends and housing the internal electrode body; electrode caps sealing the internal electrode body inside of the cell case at both open ends of the cell case, each of the electrode caps being provided with a plate member, and at least one of the electrode caps has a pressure release hole in a position corresponding with the central axis of the winding core;

an external terminal member protruding onto the surface of the electrode caps to lead current outside of the cell, the entirety of the external terminal member being shielded from or not in contact with the interior of the cell case; and

an internal terminal member directly contacting the external terminal member and brought into connection with the internal electrode body and taking current from the internal electrode body, the entirety of the internal terminal being shielded from or not in contact with the exterior of the cell case, wherein

at least two members selected from the group consisting of the plate member, the external terminal member and the internal terminal member are joined together for construction.

55. (Previously Presented) A lithium secondary cell, comprising:

- an internal electrode body including a hollow cylindrical winding core, a positive electrode plate and a negative electrode plate wound around an external peripheral wall of the hollow cylindrical winding core, a separator disposed between the positive and negative electrode plates, and a nonaqueous electrolyte solution impregnating the internal electrode body;
- a cylindrical cell case opened at both ends and housing the internal electrode body;
- electrode caps sealing the internal electrode body inside the cell case at both open ends of the cell case, each of the electrode caps being provided with a plate member;
- an external terminal member protruding onto the surface of the electrode caps to lead current outside of the cell;
- an internal terminal member brought into connection with the internal electrode body and taking current from the internal electrode body; and
- an elastic body sandwiched among any of said plate member, said external terminal member and said internal terminal member, wherein

at least two members selected from the group consisting of the plate member, the external terminal member and the internal terminal member are joined together for construction, and the elastic body is made of at least two kinds of packing having different levels of hardness.

56. (Previously Presented) A lithium secondary cell, comprising:

- an internal electrode body including a hollow cylindrical winding core, a positive electrode plate and a negative electrode plate wound around an external peripheral wall of the hollow cylindrical winding core, a separator disposed between the positive and negative

electrode plates, and a nonaqueous electrolyte solution impregnating the internal electrode body;

a cylindrical cell case opened at both ends and housing the internal electrode body;

electrode caps sealing the internal electrode body inside the cell case at both open ends of the cell case, each of the electrode caps being provided with a plate member;

an external terminal member protruding onto the surface of the electrode caps to lead current outside of the cell;

an internal terminal member brought into connection with the internal electrode body and taking current from the internal electrode body; and

an elastic body sandwiched among any of said plate member, said external terminal member and said internal terminal member, wherein

at least two members selected from the group consisting of the plate member, the external terminal member and the internal terminal member are joined together for construction, and an amount of deformation of said elastic body in a direction that pressure is applied to said elastic body for bonding is larger than an amount of elastic body spring back, and a force of pressure applied to said elastic body for bonding is not more than a quantity of force in which said elastic body holds an elasticity maintenance percentage of 95% or more.

57. (Previously Presented) The lithium secondary cell according to claim 56, wherein said elastic body electrically insulates the positive electrode and negative electrode plates from one another.

58. (Previously Presented) The lithium secondary cell according to claim 56, wherein said elastic body has an electric resistivity of not less than $10^{10} \Omega/\text{cm}$.

59. (Previously Presented) The lithium secondary cell according to claim 56, wherein said elastic body comprises at least two kinds of packing having different levels of hardness.

60. (Previously Presented) The lithium secondary cell according to claim 56, wherein said elastic body comprises any one of ethylene polypropylene rubber, polyethylene, polypropylene and fluororesin.

61. (Previously Presented) The lithium secondary cell according to claim 56, wherein said external terminal member and said internal terminal member are constructed with different metals.

62. (Previously Presented) The lithium secondary cell according to claim 56, wherein said plate member, said external terminal member and said internal terminal member comprises any one of Al, Cu and Ni or alloys thereof, and at least two of said plate member, said external terminal member, and said internal terminal member are produced by a method selected from a group consisting of friction bonding, brazing, welding, clamping and forging clamping, and any combination of those methods.

63. (Previously Presented) The lithium secondary cell according to claim 56, wherein said cell case and said electrode caps are bonded by applying clamping processing pressure for bonding to the portion of said cell case in contact with said electrode caps and an outer peripheral portion of said electrode caps for forming and/or welding processing to weld an end portion of said cell case and the outer periphery of said electrode caps.

64. (New) A lithium secondary cell, comprising:

an internal electrode body including a hollow cylindrical winding core, a positive electrode plate and a negative electrode plate wound around an external peripheral wall of the hollow cylindrical winding core, a separator disposed between the positive and negative electrode plates, and a nonaqueous electrolyte solution impregnating the internal electrode body;

a cylindrical cell case housing the internal electrode body;

at least one electrode cap sealing the internal electrode body inside the cell case at least at one end of the cell case, said electrode cap being provided with a plate member;

an external terminal member protruding onto the surface of the electrode cap to lead current outside of the cell;

an internal terminal member brought into connection with the internal electrode body and taking current from the internal electrode body; and

an elastic body sandwiched among any of said plate member, said external terminal member and said internal terminal member, wherein

at least two members selected from the group consisting of the plate member, the external terminal member and the internal terminal member are joined together for construction, and the elastic body is made of at least two kinds of packing having different levels of hardness.

65. (New) A lithium secondary cell, comprising:

an internal electrode body including a hollow cylindrical winding core, a positive electrode plate and a negative electrode plate wound around an external peripheral wall of the hollow cylindrical winding core, a separator disposed between the positive and negative

electrode plates, and a nonaqueous electrolyte solution impregnating the internal electrode body;

a cylindrical cell case housing the internal electrode body;

at least one electrode cap sealing the internal electrode body inside the cell case at least at one end of the cell case, said electrode cap being provided with a plate member;

an external terminal member protruding onto the surface of the electrode cap to lead current outside of the cell;

an internal terminal member brought into connection with the internal electrode body and taking current from the internal electrode body; and

an elastic body sandwiched among any of said plate member, said external terminal member and said internal terminal member, wherein

at least two members selected from the group consisting of the plate member, the external terminal member and the internal terminal member are joined together for construction, and an amount of deformation of said elastic body in a direction that pressure is applied to said elastic body for bonding is larger than an amount of elastic body spring back, and a force of pressure applied to said elastic body for bonding is not more than a quantity of force in which said elastic body holds an elasticity maintenance percentage of 95% or more.

66. (New) A lithium secondary cell, comprising:

an internal electrode body including a hollow cylindrical winding core, a positive electrode plate and a negative electrode plate wound around an external peripheral wall of the hollow cylindrical winding core, a separator disposed between the positive and negative electrode plates, and a nonaqueous electrolyte solution impregnating the internal electrode body;

a cylindrical cell case housing the internal electrode body;

at least one electrode cap sealing the internal electrode body inside of the cell case at least at one end of the cell case, said electrode cap being provided with a plate member and has a pressure release hole in a position corresponding with the central axis of the winding core;

an external terminal member protruding onto the surface of the electrode cap to lead current outside of the cell, the entirety of the external terminal member being shielded from or not in contact with the interior of the cell case; and

an internal terminal member directly contacting the external terminal member and brought into connection with the internal electrode body and taking current from the internal electrode body, the entirety of the internal terminal being shielded from or not in contact with the exterior of the cell case, wherein

at least two members selected from the group consisting of the plate member, the external terminal member and the internal terminal member are joined together for construction.

67. (New) The lithium secondary cell according to claim 64, wherein said elastic body electrically insulates the positive and negative electrode plates from one another.

68. (New) The lithium secondary cell according to claim 64, wherein said elastic body has an electric resistivity of not less than $10^{10} \Omega/\text{cm}$.

69. (New) The lithium secondary cell according to claim 64, wherein an amount of deformation of said elastic body in a direction that pressure is applied for bonding is larger

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than an amount of elastic body spring back, and a force of pressure applied to said elastic body for bonding is not more than a quantity of force in which said elastic body holds an elasticity maintenance percentage of 95% or more.

70. (New) The lithium secondary cell according to claim 64, wherein said elastic body comprises any one of ethylene polypropylene rubber, polyethylene, polypropylene and fluoro-resin.

71. (New) The lithium secondary cell according to claim 64, wherein said external terminal member and said internal terminal member are constructed with different metals.

72. (New) The lithium secondary cell according to claim 64, wherein said plate member, said external terminal member and said internal terminal member comprises any one of Al, Cu and Ni or alloys thereof, and at least two of said plate member, said external terminal member, and said internal terminal member are produced by a method selected from a group consisting of friction bonding, brazing, welding, clamping and forging clamping, and any combination of those methods.

73. (New) The lithium secondary cell according to claim 64, wherein said cell case and said electrode cap are bonded by applying clamping processing pressure for bonding to the portion of said cell case in contact with said electrode cap and an outer peripheral portion of said electrode cap for forming and/or welding processing to weld an end portion of said cell case and the outer periphery of said electrode cap.

74. (New) The lithium secondary cell according to claim 65, wherein said elastic body electrically insulates the positive electrode and negative electrode plates from one another.

75. (New) The lithium secondary cell according to claim 65, wherein said elastic body has an electric resistivity of not less than $10^{10} \Omega/\text{cm}$.

76. (New) The lithium secondary cell according to claim 65, wherein said elastic body comprises at least two kinds of packing having different levels of hardness.

77. (New) The lithium secondary cell according to claim 65, wherein said elastic body comprises any one of ethylene polypropylene rubber, polyethylene, polypropylene and fluororesin.

78. (New) The lithium secondary cell according to claim 65, wherein said external terminal member and said internal terminal member are constructed with different metals.

79. (New) The lithium secondary cell according to claim 65, wherein said plate member, said external terminal member and said internal terminal member comprises any one of Al, Cu and Ni or alloys thereof, and at least two of said plate member, said external terminal member, and said internal terminal member are produced by a method selected from a group consisting of friction bonding, brazing, welding, clamping and forging clamping, and any combination of those methods.

80. (New) The lithium secondary cell according to claim 65, wherein said cell case and said electrode cap are bonded by applying clamping processing pressure for bonding to the portion of said cell case in contact with said electrode cap and an outer peripheral portion of said electrode cap for forming and/or welding processing to weld an end portion of said cell case and the outer periphery of said electrode cap.

81. (New) The lithium secondary cell according to claim 66, wherein at least one of said plate member, said external terminal member, and said internal terminal member is produced by press processing or cold forging.

82. (New) The lithium secondary cell according to claim 66, wherein at least two of said plate member, said external terminal member and said internal terminal member are produced by a method selected from a group consisting of friction bonding, brazing, welding, clamping and forging clamping, and any combination of those methods.

83. (New) The lithium secondary cell according to claim 66, wherein the central axis of said winding core is coaxial with the central axis of said cell case.

84. (New) The lithium secondary cell according to claim 66, wherein said external terminal member has a hollow portion that functions as a pressure release path of said pressure release hole.